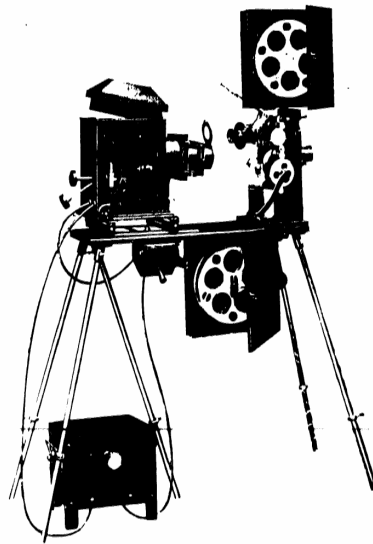


EDISON KINETOSCOPES



UNDERWRITERS' MODEL
TYPE "B"

ONE PIN MOVEMENT

PRICE, \$225.00

Illustration of the Underwriters' Model Kinetoscope, Type "B", showing the two film reels and the viewing mechanism.

C. B. KEEFE

602 Sixth Avenue,

New York City.

EDISON PROJECTING KINETOSCOPES

Edison Projecting Kinetoscope
Underwriters' Model
(TYPE "B")

ONE-PIN MOVEMENT

Approved by the New York Board of Fire Underwriters and the Department of
Water Supply, Gas and Electricity.

Cat. No. 18005 Underwriters' Model, Type "B," complete..... Code. *Stallist* Price. \$225.00

EQUIPMENT.

- | | |
|---|--|
| 1. Hand Power Mechanism in Metal Cabinet, and Quartered Oak Cover. | 16. Eccentric Holder for Calcium Burner. |
| 2. Improved Automatic Shutter. | 17. Improved Russia Iron Cone and Slide Carrier Frame. |
| 3. Improved Revolving Shutter. | 18. Improved Metal Double Slide Carrier. |
| 4. Improved Film Protector. | 19. Condensing Lens. |
| 5. Improved Star Wheel. | 20. No. 5 Motion Picture Objective Lens. |
| 6. Improved Balance Wheel. | 21. No. 2A Stereopticon Objective Lens with Stereopticon Attachment. |
| 7. Upper Film Magazine. | 22. Improved Double Pole Knife Switch and Russia Iron Switch Cover. |
| 8. Lower Film Magazine. | 23. Asbestos Covered Connecting Cords with Patent Terminals from Lamp to Rheostat and Switch. |
| 9. Two 10-inch Reels. | 24. Improved Cast Metal Grid Adjustable Rheostat for 100-125 Volts Direct or Alternating Current and 40 Amperes. |
| 10. Improved Take-up Attachment. | |
| 11. Improved Film Re-winding Attachment. | |
| 12. Improved Crank. | |
| 13. Improved Base Board with Flanges and Nickel-plated Adjustable Legs. | |
| 14. Improved Russia Iron Lamp House with Improved Sliding Base. | |
| 15. Improved Arc Lamp. | |

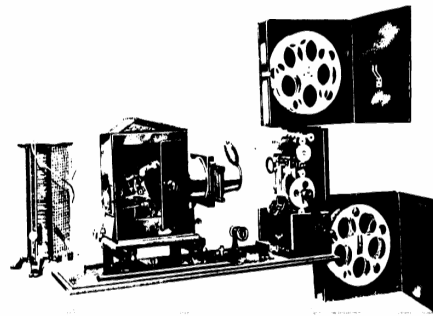
Net weight, complete, 121 lbs.; gross weight, 250 lbs. Dimensions, set up ready for operation: Length, 3 feet, 1 inch; width, 16 inches; height, 28 inches. Dimensions of machine packing case 46 x 15 x 22 inches; rheostat packing case, 17 x 12 x 14 inches.

Cat. No.	Code	Price
18006 Underwriters' Model, Type "B," With Calcium Burner, Without Electric Light Attachments (Articles Nos. 16, 22, 23 and 24)	<i>Stallist</i>	\$210.00
18007 Underwriters' Model, Type "B," Without Adjustable Legs and Flanges	<i>Stallist</i>	\$175.00
18008 Underwriters' Model, Type "B," With Calcium Burner, Without Electric Light Attachments (Articles Nos. 14, 22, 23 and 24) Adjustable Legs and Flanges	<i>Stallist</i>	\$200.00
18011 Underwriters' Model, Type "B," Mechanism	<i>Stallist</i>	\$125.00

EQUIPMENT

- | | |
|--|---|
| Hand Power Mechanism in Metal Cabinet, and Quartered Oak Cover | Lower Film Magazine |
| Improved Automatic Shutter | Improved Take-up Attachment |
| Improved Revolving Shutter | Two 10-inch Reels |
| Improved Film Guard | No. 5 Motion Picture Objective Lens |
| Upper Film Magazine | No. 2A Stereopticon Objective Lens with Stereopticon Attachment |

Form No. 312, 1-2-07, 50M.

EDISON
PROJECTING
KINETOSCOPES

EDISON EXHIBITION PROJECTING KINETOSCOPE IMPROVED TAKE-UP AND FILM MAGAZINE

C. B. KLEINE

602 Sixth Avenue,

New York City.

EDISON PROJECTING KINETOSCOPE

EXHIBITION MODEL

Improved Take-up and Film Magazines

PRICE, \$135.00

Catalog No. K 15183.

Code Yermades

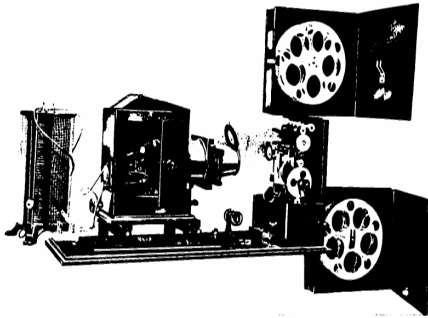


Fig. 18

EDISON EXHIBITION PROJECTING KINETOSCOPE IMPROVED TAKE-UP AND FILM MAGAZINES

EQUIPMENT

Hand Power Mechanism in Quartered Oak Cabinet	Russia Iron Cone and Slide Carriers
Upper Film Magazine	Frame
Lower Film Magazine	Double Slide Carrier
Improved Take-up Attachment	Condensing Lens
Two 10 inch Reels	No. 2 Motion Picture Objective Lens
Box Board with Clamping Screws	No. 1 A Stereopticon Objective Lens with Stereopticon Attachment
Long Handle Complete with S. T. Bell	Knife Switch in Connection with Lamp to Rheostat
V. T. Bell Complete	Adjustable Rheostat for controlling current
Edison Exhibition Projecting Kinetoscope	

EXHIBITION MECHANISM

Improved Take-up and Film Magazines

PRICE, \$115.00

Catalog No. K 15184.

Code Yermado

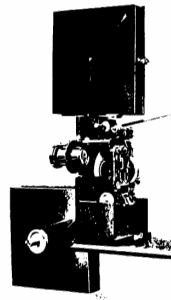


Fig. 19

REAR VIEW EXHIBITION MECHANISM IMPROVED TAKE-UP AND FILM MAGAZINES

EQUIPMENT

Hand Power Mechanism in Quartered Oak Cabinet	Two 10 inch Reels
Upper Film Magazine	No. 2 Motion Picture Objective Lens
Lower Film Magazine	No. 1 A Stereopticon Objective Lens with Stereopticon Attachment
Improved Take-up Attachment	

FILM MAGAZINES

The Film Magazines shown in Fig. 21 are made of the best quality of No. 25 gauge Russia iron and are constructed in the most substantial manner. The rollers over which the film passes into the magazines are made of aluminum and are so designed that the wear on the film is reduced to a minimum.

Upper Magazine	Lower Magazine
----------------	----------------

Upper Magazine	Lower Magazine
----------------	----------------

Upper Magazine	Lower Magazine
----------------	----------------



Fig. 21

IMPROVED TAKE-UP ATTACHMENT

The Improved Take-up Attachment shown in Fig. 24 is a most efficient device. It has but few parts and is of very simple construction. It has been thoroughly tested for the past two years in actual service, under the most severe conditions, and its perfect construction and operation is fully guaranteed. The power is transmitted to the lower reel by a round leather belt which is fitted with belt couplings so that the belt can be readily shortened. The belt should be crossed so that the lower reel revolves from left to right when facing the door of the lower film magazine. The Improved Take-up Attachment is now furnished with all Exhibition Model Kinetoscopes either with or without Film Magazines.

Catalog No. K. 15187. Improved Take-up Attachment.
Code *Yermoran*. Price, \$15.00.



Fig. 24

IMPORTANT NOTICE

Film Magazines with the Improved Take-up Attachment, or the Improved Take-up Attachment without Magazines can readily be adapted to any Edison Model Exhibition Kinetoscope. The only change required is a slight alteration in the Mechanism Cabinet which is clearly shown in Fig. 25, that further instruction is unnecessary.

Directions: Here is an illustration of the point A and B, at the intersection of the cam and the pin on the upper part of the cabinet. The pin and the cam are shown in the diagram, and are not shown in the cabinet. The pin and the cam are shown in the diagram, and are not shown in the cabinet.

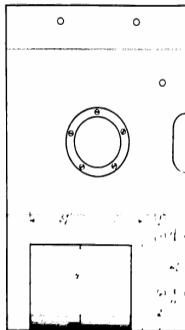


Fig. 25

IMPROVED CRANK

The improvement, which is shown in Fig. 26, consists of a spring catch which engages with a groove in the main shaft and prevents the crank from slipping from the shaft. The catch is nickel plated and of no design. The Improved Crank is now furnished with all Exhibition Model Kinetoscopes.

Catalog No. K. 15188. Improved Crank.
Code *Yermoran*. Price, \$1.00.

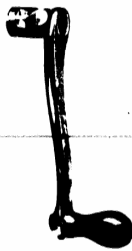


Fig. 26

EDISON PROJECTING KINETOSCOPES

Edison Projecting Kinetoscope
Underwriters' Model

(TYPE "B")

ONE-PIN MOVEMENT

THE phenomenal success which has attended the placing of the Underwriters' Model machine upon the market has suggested many additional new features and improvements, all of which are embodied in the Underwriters' Model Type "B" machine. Particular attention is called to the new features and improvements described in detail and illustrated under the titles which follow. Each is the result of experiments and tests made in actual service under the most severe conditions, in order to prove their reliability and adaptability for the work, and attain a higher standard of excellence and superior results in the projection of the pictures.

The objectionable flicker which has been more or less prevalent in the exhibition of motion pictures in the past is mainly due to the transition from light to darkness, and is caused by the revolving shutter cutting off the light between the projection of successive pictures. In the Two-Pin Movement Mechanism, the ratio between stop and movement is $\frac{1}{5}$ ths stop and $\frac{2}{5}$ ths movement, or in other words the shutter is cutting off the light $\frac{2}{5}$ ths of the time. In the One-Pin Movement Mechanism, the ratio between stop and movement is $\frac{1}{4}$ ths stop and $\frac{3}{4}$ ths movement, or in other words the shutter is cutting off the light $\frac{1}{4}$ th of the time. Consequently the One-Pin Movement Mechanism cuts down the flicker the difference between $\frac{2}{5}$ ths and $\frac{1}{4}$ th, permitting the use of a smaller revolving shutter, and thereby increasing the illumination, brilliancy and definition of the pictures. The wear on the star wheel and cam in the One-Pin Movement Mechanism is twice as great as it is in the Two-Pin Movement Mechanism, which heretofore has been an objectionable feature of the One-Pin Movement Mechanism. By superior design, construction and workmanship, and the use of the best material obtainable, this objectionable feature has been entirely overcome, so that the Edison One-Pin Movement Mechanism will actually outwear the old style Two-Pin Movement Mechanism.

The extent of the wear and tear on the star wheel and cam can only be realized when it is remembered that with every revolution of the main shaft or crank handle, the star wheel and cam engage 16 times, 640 times a minute, 47,200 times an hour, and 1,132,800 times per day of 24 hours, which is equivalent to a hard travel of 6 miles per day and the mechanism must be capable of standing up to this work day in and day out.

EDISON PROJECTING KINETOSCOPES

SPECIAL FEATURES

Improved One-Pin Movement Mechanism

The star wheel and shaft is made of a *single piece* of tool steel. The face or wearing surface of the star wheel has been greatly increased. The shaft has been made extra heavy to eliminate all vibration. The intermittent sprocket is of improved design and is made of steel. The cam shaft has been made heavier, the cam is made of tool steel, and the wearing surface has been materially increased. The cam pin is made of Stubbs's steel, hardened and ground, with an extra long bearing in the cam, and can be readily replaced. The cam shaft driving gear is made of steel and fibre and the width of the face has been increased. The cam shaft driving gear stud is provided with an extra long phosphor-bronze bearing. The long and short eccentric bushings are made of phosphor-bronze and are all larger and heavier to accommodate the heavier diameter shafts. The revolving shutter is of new and novel design and construction and is placed close to the picture gauge, which permits the use of short focus lenses. The One Pin Movement Mechanism, in conjunction with the Improved Revolving Shutter, practically eliminates all flicker and effects a 50% improvement in the projection of the pictures. The gears throughout the entire mechanism, with the exception of the large driving gear, are steel faced fibre gears, with fine teeth which reduce the noise and power required for operation to a minimum. A film protector at the base of the mechanism, Fig. 60, prevents the film in case of breakage during operation from running out upon the floor or against the lamp house. The Mechanism Cabinet is made of cast iron and is a great improvement over the old style wooden cabinet. It reduces the noise of operation, eliminates vibration, gives increased rigidity, and adds to the steadiness of the pictures. A quartered oak cover with handles is provided for carrying purposes.

Improved Rheostat

The design and construction of the Rheostat shown in Fig. 61 is a radical departure from all types of rheostats heretofore used in connection with Motion Picture Machines.

EDISON PROJECTING KINETOSCOPES

Mechanisms

Underwriters'

Model

(TYPE "B")

One Pin Movement

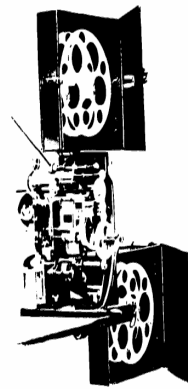


FIG. 57
Front View Mechanism, Improved Automatic Shutter, Improved
Take-Up, Film Magazine and
Film Protector

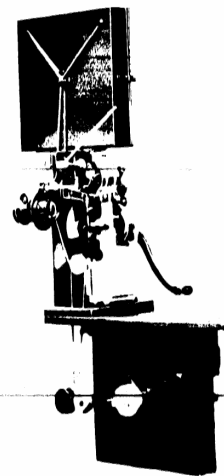


FIG. 58
Side View Mechanism, Improved Automatic Shutter, Improved
Take-Up, Film Magazine and
Film Protector

EDISON PROJECTING KINETOSCOPES

Resistance Material

The old style wire resistance coils have been entirely discarded and replaced with *Cast Metal Grids*, supported and insulated by water and fire proof material.

Flexibility

The Rheostat can be used on either direct or alternating current of any frequency, with equally good results and in either case a current of 40 amperes may be obtained *without excessive heating* on a line voltage varying from 100 to 125 volts.

Design and Construction

The design and construction are compact and as light as is consistent with the work required to be done. The front, back and sides are enclosed with solid sheet metal while the top and bottom are enclosed with perforated sheet metal of fine mesh.

The operating switch, switch contacts, and binding posts are all inside the sheet metal frame and are thoroughly protected from outside contact. The switch handle, which is of non-conductive material, is outside the sheet metal frame, and arrow pointers indicate the position of the switch in reference to the "On" and "Off" points.

The binding posts, although inside the sheet metal frame, are readily accessible and are adapted for either round or flat terminals.

The open space on all four sides of the *Cast Metal Grids*, or *resistance material*, and the perforated sheet metal on the top and bottom of the enclosing metal frame provide an ideal ventilation and permit the heat to be rapidly dissipated.

Improved Automatic Shutter

This Shutter Fig. 64, is a great improvement over every similar device. Under no possible conditions can the light be thrown upon the film except when the film is in motion. When the shutter is wide open it automatically locks itself so that no power is required to keep it open. When the speed of the machine falls below a certain point, however, it automatically unlocks itself and closes.

Improved Take-Up Attachment

A special feature of this device is that the *Lower Film Mechanism* can be placed either in front of the mechanism or *outside* the box, as shown in Fig. 59 and Fig. 60. An *Automatic Belt Tensioner* is provided to take up any slack in the belt under all conditions.

EDISON PROJECTING KINETOSCOPES

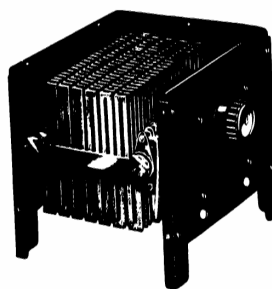
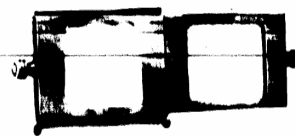
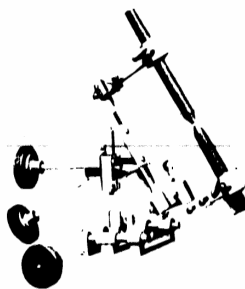


Fig. 61
Cast Metal Grid Rheostat
Control Knob Removed



Fig. 62
Improved Adjustable Stand Complete



EDISON PROJECTING KINETOSCOPES

Improved Arc Lamp

The lamp, Fig. 63, is of the rack and pinion type of construction with few parts and extremely simple. All adjustments are made by hand wheel movement. The adjusting rods are of extra length and fitted with heavy large diameter insulated handles with milled edges. The binding posts are adapted for either round or flat terminals.

Improved Adjustable Stand

The fifth adjustable leg, Fig. 62, at the rear of the base board acts as a tripod and eliminates all vibration and end motion.

Metal Slide Carrier

The old style wooden slide carrier has been replaced with a metal carrier, Fig. 65, made of Russia iron insulated, substantial, of neat appearance and adapted for all Lamp Houses.

CAT. No.	CODE.	PRICE.
19086 Metal Double Slide Carrier .	Standard	\$1.50

Improved Motion Picture Objective Lens No. 5

This Lens is regularly furnished with the Underwriters' Model (Type "B") Machine. It consists of a Standard Jacket and a No. 5 Lens Tube which is of improved quality and projects a three (3) foot picture for every **fourteen (14) feet of distance, the same as the No. 2 Lens Tube.** The same Jacket will accommodate Lens Tubes No. 4 and No. 6, which are of the same quality as No. 5 and which project the same size pictures respectively as Lens Tubes No. 1 and No. 3. Lens Tubes No. 4, No. 5 and No. 6 project sharp and brilliant pictures and are of the best quality obtainable. All Lens Tubes are adapted for Standard Jacket and for all Models of Edison Projecting Kinetoscopes.

CAT. No.	CODE.	PRICE.
19083 Jacket and three (3) Lens Tubes in Case	Standard	\$8.50
19084 Jacket	Yellowish	50
19084 Lens Tube No. 4	Standard	1.25
19087 Lens Tube No. 5	Standard	1.25
19087 Lens Tube No. 6	Standard	1.25